

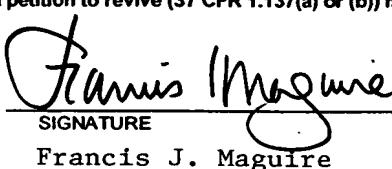
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		<b>ATTORNEY'S DOCKET NUMBER</b> 915-005.168
INTERNATIONAL APPLICATION NO. PCT/FI2003/000948	INTERNATIONAL FILING DATE 12 December 2003	U.S. APPLICATION NO. If known, see 37 CFR 1.5 <b>107538972</b>
<b>TITLE OF INVENTION</b> Diffractive Grating Element for Balancing Diffraction Efficiency		
<b>APPLICANT(S) FOR DO/EO/US</b> Tapani LEVOLA		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))        a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).        b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.        c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).        a. <input type="checkbox"/> is attached hereto.        b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))        a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).        b. <input type="checkbox"/> have been communicated by the International Bureau.        c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.        d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. PTO-From 1449, cited references</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: PCT/ISA/210; PCT/IPEA/409,</p>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007. OMB 0651-0021  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER					
<b>10/538,972</b>		PCT/FI2002/000948		915-005.168					
21. The following fees are submitted:									
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00 <input type="checkbox"/> b) Examination fee..... \$200.00 <input checked="" type="checkbox"/> c) Search fee..... \$500.00									
<b>TOTAL OF ABOVE CALCULATIONS =</b> \$1000.00									
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.									
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)		RATE					
- 100 =	/50 =			x \$250.00	\$				
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).									
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$					
Total claims	11	- 20 =	0	x \$50.00	\$ 0				
Independent claims	1	- 3 =	0	x \$200.00	\$ 0				
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+ \$360.00	\$				
<b>TOTAL OF ABOVE CALCULATIONS =</b> \$ 1,000.00									
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.									
<b>SUBTOTAL =</b> \$ 1,000.00									
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).									
<b>TOTAL NATIONAL FEE =</b> \$ 1,000.00									
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property									
<b>TOTAL FEES ENCLOSED =</b> \$ 1,040.00									
<table border="1" style="width: 100%;"> <tr> <td style="width: 75%;">Amount to be refunded:</td> <td style="width: 25%; text-align: right;">\$</td> </tr> <tr> <td>Amount to be charged:</td> <td style="text-align: right;">\$</td> </tr> </table>						Amount to be refunded:	\$	Amount to be charged:	\$
Amount to be refunded:	\$								
Amount to be charged:	\$								
a. <input checked="" type="checkbox"/> A check in the amount of \$ 1,040.00 to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0442. A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO:									
Customer No.: 004955									
 SIGNATURE Francis J. Maguire NAME 31,391 REGISTRATION NUMBER									

10/538972  
JC09 Rec'd PCT/PTO 14 JUN 2005

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

REGARDING THE INTERNATIONAL  
APPLICATION OF:  
**PCT/FI2003/000948**

DOCKET OR REFERENCE NUMBER:  
**915-005.168**

ENTITLED:  
**DIFFRACTIVE GRATING ELEMENT FOR BALANCING DIFFRACTION EFFICIENCY**

Mail Stop PCT  
To The United States Designated/Elected Office (DO/EO/US)  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**NATIONAL STAGE EXPRESS MAIL CERTIFICATE**

"Express Mail" label number: **EV 562515058 US**

Date of Deposit: **June 14, 2005**

I hereby certify that the following attached papers or fee

Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US)  
Preliminary Amendment  
WO Publication, front page, 14 pages specification, 2 pages claims, 13 pages drawings  
Combined Declaration and Power of Attorney  
Assignment and Assignment Cover Sheet  
Information Disclosure Statement, PTO-Form 1449 and references  
PCT/IPEA/409, PCT/IB/332  
Check for \$ 1,040.00 for payment of fees  
Self addressed stamped return postcard

Are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**Deborah J. Clark**

(Typed or printed name of person mailing paper or fee)

Deborah J. Clark

(Signature of person mailing paper or fee)

Each paper letter or communication relating to an international application during the international stage for which a date of filing is to be obtained as of the date of mailing must have its own certificate and the "Express Mail" label number as a part thereof or attached thereto. When, as here, the certification is presented on a separate sheet, that sheet must (1) be signed and (2) fully identify and be securely attached to the paper or fee it accompanies. Identification should include the serial number and filing date of the application as well as the type of paper being filed, e.g. complete application, specification and drawings, responses to rejection or refusal, notice of appeal, etc. If the serial number of the application is not known, the identification should include at least the name of the inventors (s) and the title of the invention.

The label number need not be placed on each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter or a fee, along with the certificate of mailing by "Express Mail". Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is placed.

Customer No.: 4955